

FIG 1

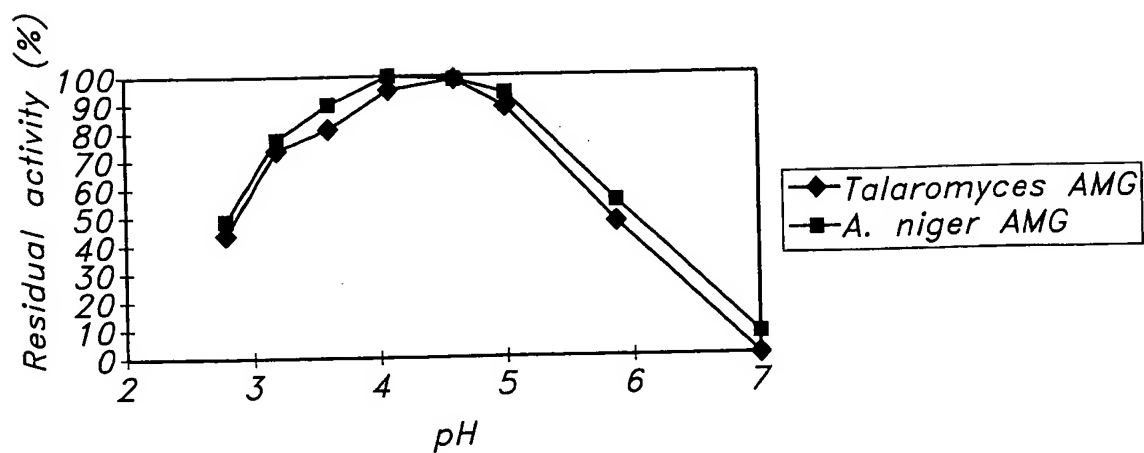


FIG 2

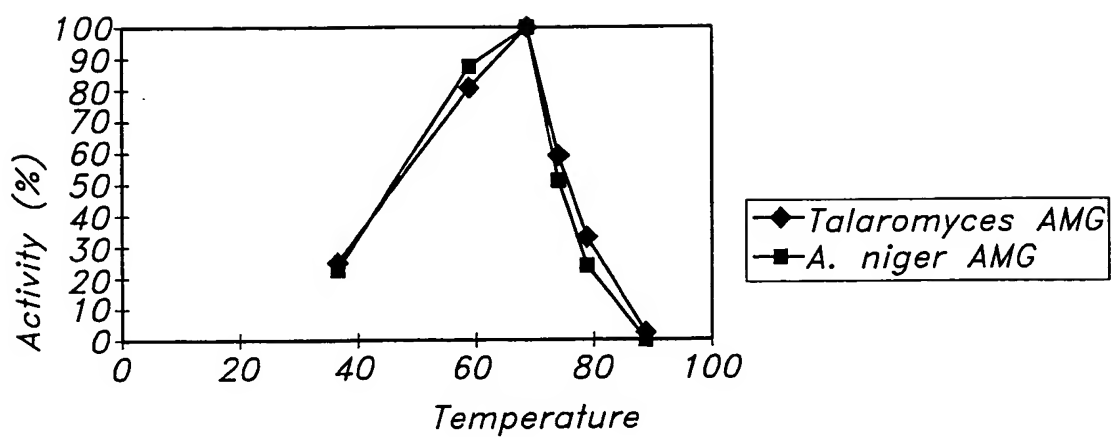


FIG 3

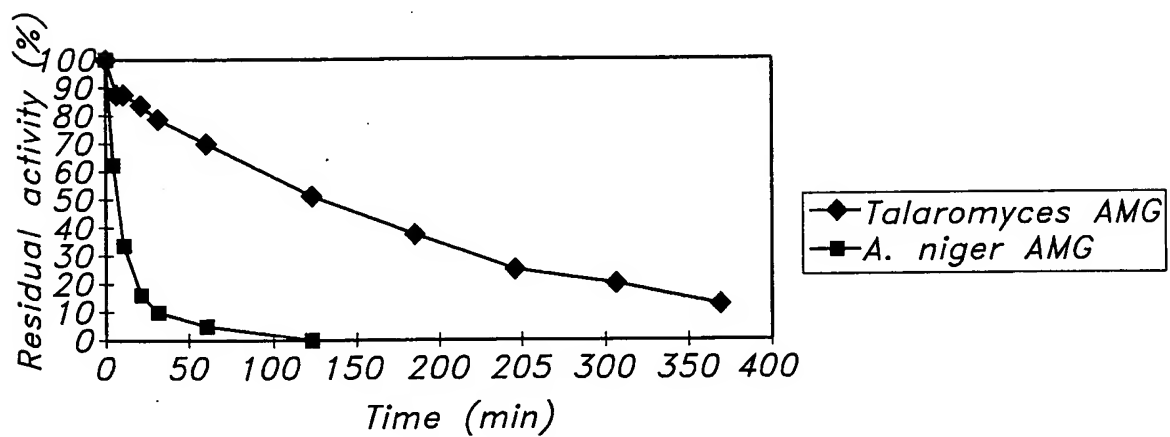


FIG 4

10 30 60 70 90
 ACGAGATGTGTATATACTGTGAACCAAACTAGATGATGTCAGTTATGCTGGTCTGAGAACTCATAGAAGCCCTTGAAAATACCCCAAGCT
 110 130 150 170
 AGCACTCCAACCCTAACTCTGTTGCTCTACTAGATCAAGACGAGTACTCTGATTGAGCTGCAGGCTTGGAAATATATGATTAGCAGAAAAA
 190 210 230 250 270
 GGGTTAAACTTGTATGACAATCAGTTTGTCTAGTACTCCGTAGTGATGCCATGTCTATAGAGTCGACACTAAGGCAGCATGTGAATGAGT
 290 310 330 350
 CGGAAATGACAGGAAGCAGATTCCCTAACAGTCATGTTCTCCGTGCCTGCATCCCCACGTCACCTGCAAAGATGCCACGCTACTCCACAC
 370 390 410 430 450
 CGGCGCCTTGATGTCTGCTGTTCTGGCCTAGTGGAGCCCCATGCGTGCTAGCTCGTGGTCTTCGAATAAATCAGAATAAAAAACGGAG
 470 490 510 530
 TAATTAATTGCGCCCGCAACAACTAAGCAATGTAATCAATGCCAAGCTTCCGCTGATGCTCTTGACATCTCCGTAGTGGCTTCTTTCTG
 550 570 590 610 630
 TAATTTACAGACGTATATATAGTAGTAATGCCAGCAGGCCGGGATAATGATGGGGATTCTGAACTCTCTGCTTCCGTACGCTGAACAGT
 650 670 690 710
 TTGCTTGCCTTGTCAACCATGGCGTCCCTCGTTGCTGGCGCTCTCTGCATCCTGGGCTGACGCTGCTGCATTGACAGAGCGCCCGTT
 730 750 770 790 810
M A S L V A G A L C I L G L T P A A F A R A P V
 GCAGCGGAGCCACCGTTCCCTGGACTCCTTTCTCGCAACCGAACTCCAATTGCCCTCCAAGGCGTCTGAACAACATCGGGCCAAT
 830 850 870 890
A A R A T G S L D S F L A T E T P I A L Q G V L N N I G P N
 GGTGCTGATGTGGCAGGAGCAAGCGCCGCATTGTGGTTGCCAGTCCGAGCAGGAGCGACCCAAATTgtaggttctttcccaccagaaat
 910 930 950 970 990
 G A D V A G A S A G I V V A S P S R S D P N
 tacttatttaaatacagccctctgacaggttgaagATTCTACTCCTGGACACGTGACGCGCGCTCACGGCCAAATACCTCGTCGACGCC
 1010 1030 1050 1070
 Y F Y S W T R D A A L T A K Y L V D A
 TTCATCGCGGGCAACAAGGACCTAGAGCAGACCATCCAGCAGTACATCAGCGCGCAGGCGAAGGTGCAAACTATCTCCAATCCGTCCGGA
 1090 1110 1130 1150 1170
 F I A G N K D L E Q T I Q Q Y I S A Q A K V Q T I S N P S G
 GATTATCCACCGGTGGCTTAGGTGAGCCCAAGTTCAATGTGAATGAGACGGCTTTTACCGGGCCCTGGGCTCGTCCACAGAGGGACGGA
 1190 1210 1230 1250
 D L S T G G L G E P K F N V N E T A F T G P W G R P Q R D G
 CCAGCGTTGAGAGCGACGGCCCTCATTCGCTATGCCAATATCTCATCgtaagcttctgctcgctgcccttctctgctcgatgctaa
 1270 1290 1310 1330 1350
 P A L R A T A L I A Y A N Y L I
 gtagtctgtcagGACAACGGCGAGGCTTCGACTGCCGATGAGATCATCTGGCCGATTGTCCAGAATGATCTGTCTACATCACCCAATA
 1370 1390 1410 1430
 D N G E A S T A D E I I W P I V Q N D L S Y I T Q Y
 CTGGAATCATCCACCTTCGgtaggcaaatgaatatccccgacacagcgtgtactaatttgattcagACCTCTGGGAAGAAGTAGAAGG
 1450 1470 1490 1510 1530
 W N S S T F D L W E E V E G

FIG 5A

ATCCTCATTCCTCACAAACCGCCGTGCAACACCGCGCCCTGGTGAAGGCAATGCACTGGCAACAAGGCTGAACCACACGTGCTCCAACGTG
 S S F F T T A V Q H R A L V E G N A L A T R L N H T C S N C
 1550 1570 1590 1610
 CGTCTCTCAGGCCCCCTCAGGTCCTGTGTTTCCTGCAGTCATACTGGACCGGATCGTATGTTCTGGCCAACCTTTGGTGGCAGCGGTCTGTT
 V S Q A P Q V L C F L Q S Y W T G S Y V L A N F G G S G R S
 1630 1650 1670 1690 1710
 CGGCAAGGACGTGAATTCGATTCTGGGCAGCATCCACACCTTTGATCCCGCCGAGGCTGTGACGACTCGACCTTCAGCCGTGTTCCGGC
 G K D V N S I L G S I H T F D P A G G C D D S T F Q P C S A
 1730 1750 1770 1790
 CCGTGCCTTGGCAAATCACAAGGTGGTCACCGACTCGTTCCGGAGTATCTATGCGATCAACTCAGGCATCGCAGAGGGATCTGCCGTGGC
 R A L A N H K V V T D S F R S I Y A I N S G I A E G S A V A
 1810 1830 1850 1870 1890
 AGTCGGCCGCTACCTGAGGATGTCTACCAGGGCGGAACCCCTGGTACCTGGCCACAGGAGCGCTGCAGAGCAGCTTTACGACGCCAT
 V G R Y P E D V Y Q G G N P W Y L A T A A A E Q L Y D A I
 1910 1930 1950 1970
 CTACCAGTGAAGAAGATCGGCTCGATAAGTATCACGGACGTTAGTCTGCCATTTTCCAGGATATCTACCCTTCTGCCCGGTGGGCAC
 Y Q W K K I G S I S I T D V S L P F F Q D I Y P S A A V G T
 1990 2010 2030 2050 2070
 CTATAACTCTGGCTCCACGACTTTCAACGACATCATCTCGGCCGTCAGACGTATGGTGATGGATATCTGAGTATTGTGctacgttttgc
 Y N S G S T T F N D I I S A V Q T Y G D G Y L S I V
 2090 2110 2130 2150
 cttagattctcaggtgtaaagaaaaaatggaactaactcagttctagGAGAAATATACTCCCTCAGACGGCTCTCTTACCGAACAATTC
 E K Y T P S D G S L T E Q F
 2170 2190 2210 2230 2250
 TCCCGTACAGACGGCACTCCGCTTTCTGCCTCTGCCCTGACTTGGTCGTACGCTTCTCTCTAACCCTTCGGCCCGCAGACAGTCCGTC
 S R T D G T P L S A S A L T W S Y A S L L T A S A R R Q S V
 2270 2290 2310 2330
 GTCCCTGCTTCTGGGGCGAAAGCTCCGCAAGCAGCGTCCCTGCCGTCTGCTCTGCCACCTCTGCCACGGGGCCATACAGCACGGCTACC
 V P A S W G E S S A S S V P A V C S A T S A T G P Y S T A T
 2350 2370 2390 2410 2430
 AACACCGTCTGGCCAAGCTCTGGCTCTGGCAGCTCAACAACCACCAAGTAGCGCCCATGCACCACTCTACCTCTGTGGCTGTGACCTTC
 N T V W P S S G S G S S T T T S S A P C T T P T S V A V T F
 2450 2470 2490 2510
 GACGAAATCGTCAGCACCAGTTACGGGGAGACAATCTACCTGGCCGGCTCGATCCCGAGCTGGGCAACTGGTCCACGGCCAGCGCGATC
 D E I V S T S Y G E T I Y L A G S I P E L G N W S T A S A I
 2530 2550 2570 2590 2610
 CCCCTCCGCGCGGATGCTTACACCAACAGCAACCCGCTCTGGTACGTGACCGTCAATCTGCCCCCTGGCACCAGCTTCGAGTACAAGTTC
 P L R A D A Y T N S N P L W Y V T V N L P P G T S F E Y K F
 2630 2650 2670 2690
 TTCAAGAACCAGACGGACGGGACCATCGTCTGGGAAGACGACCCGAACCGGTCTGACACGGTCCCAGCGTACTGTGGGCAGACTACCGCC
 F K N Q T D G T I V W E D D P N R S Y T V P A Y C G Q T T A
 2710 2730
 ATTCTTGACGATAGTTGGCAGTGAGATAACATCCACCCTTCTGTTTTA
 I L D D S W Q *

FIG 5B

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1	An _{amg} -1.PRO	M.SF.RSLLALSGLVCTGLA.NVISK RA T..LDSWLSNEATVARTAILNNIGADGAWVSG
	Ao _{AMG} .PRO	MVSF.SSCLRALALGSSVLAVQPVL RQ ATG.LDTWLSTEANFSRQAILNNIGADGQSAQG
	Tal _{-AMG} .PRO	MASLVAGALCILGLTPAAAFARAPVAARATGSLDSFLATETPIALQGV LNNIG PNGADVAG
		* * * * *
61	An _{amg} -1.PRO	ADSGIVVASPSTDNP DYFY TWTRDSGLVLKTLVDLFRNGDTSLLSTIENYISAQAIVQGI
	Ao _{AMG} .PRO	ASPGVVIASPSKSDPDYFYTWTRDSGLVMKTLVDLFRGGDADLLPIIEEFISSQARIQGI
	Tal _{-AMG} .PRO	ASAGIVVASPSRSDPNYFY SWTR DAALTA KYL VDAFIAGNKDLEQTIQ QYI SAQAKVQTI
		* * * * *
121	An _{amg} -1.PRO	SNPSGDLSSGAGLGE PKFN VD ETAY TGSGVGRPQRDGPALRATAMIGFGQWLLDNGYTSTA
	Ao _{AMG} .PRO	SNPSGALSSG.GLGE PKFN VD ETAY TGAWGRPQRDGPALRATAMISFGEWL VENS HTSIA
	Tal _{-AMG} .PRO	SNPSGDLSTG.GLGE PKFN VN ETAY TGPWGRPQRDGPALRATALIAYANYLIDNGEASTA
		* * * * *
181	An _{amg} -1.PRO	TDIVWPLVRNDLSYVAQYWNQTGYDLWEEVNGSSFF TI AVQHRALVEGSAFATAVGSSCS
	Ao _{AMG} .PRO	TDLVWPVVRNDLSYVAQYWSQSGFDLWEEVQGT SFFT VAVSHRALVEGSSFAKTVGSSCP
	Tal _{-AMG} .PRO	DEIIWPIVQNDLSYITQYWNSS TFDL WEEVEGSSFF TTAV QHRALVEGNALATRLNHTCS
		* * * * *
241	An _{amg} -1.PRO	WCDSQAPEILCYLQSF WTGS FILANFDS.SRSGKDANTLLGSIHTFDPEAACDDSTFQPC
	Ao _{AMG} .PRO	YCDSQAPQVRCYLQSF WTGS YIQANFGG.GRSGKDINTVLGSIHTFD PQAT CDDATFQPC
	Tal _{-AMG} .PRO	NCVSQAPQVLCFLQSY WTGS YVLANFGGSGRSGKDVNSILGSIHTFD PAGG CDDSTFQPC
		* * * * *
301	An _{amg} -1.PRO	SPRALANHKEVVDSFRSIYTLNDGLSDSEAVAVGRYPEDTY YNGN PWF LCT LAAAEQLYD
	Ao _{AMG} .PRO	SARALANHKVVTDSFRSIYAINSGRAENQAVAVGRYPEDSY YNGN PWF LT LAAAEQLYD
	Tal _{-AMG} .PRO	SARALANHKVVTDSFRSIYAINSGIAEGSAVAVGRYPEDVYQGGNPWYLATAAAAEQLYD
		* * * * *
361	An _{amg} -1.PRO	ALYQWDKQGSLEVTDVSLDFFKALYSDAATGTYS SSS STYSSIVDAVKT FADG FVSIVET
	Ao _{AMG} .PRO	ALYQWDKIGSLAITDVSLPFFKALYSSAATGTYAS STTV KDIVSAVKAYADGYVQIVQT
	Tal _{-AMG} .PRO	AIYQWKKIGSISITDVSLPFFQDIYPSAAVGTYN SGST TFNDIISAVQTYGDGYLSIVEK
		* * * * *
421	An _{amg} -1.PRO	HAASNGSMSEQYDKSDGEQLSARDLTWSYAALLTANNRRNSVVPASWGETSASSVPGTCA
	Ao _{AMG} .PRO	YAASTGSM AEQY TKTDG SQTS ARDLTWSYAALLTANNRRNAVVPAPWGETAATSIPSACS
	Tal _{-AMG} .PRO	YTPSDGSLTEQFSRTDGTPLSASALTWSYASLLTASARRQSVVPASWGESSASSVPAVCS
		* * * * *

FIG 6A

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	481	540
An amg-1.PRO	ATSAIGTYSSVTVTWPSIVATGGTTTTATPTGSGSVTSTSKTTATASKTSTSTSSTSC	
Ao AMG.PRO	TTSASGYSSVVITSWPTISGYPGA.....PDSPCQ	
Tal-AMG.PRO	ATSATGPYSTATNTVWPS.....SGSGS.....STTSSAPCT	
	*** * ** * **	*
	541	600
An amg-1.PRO	TPTAVAVTFDLTATTTYGENIYLVGSISQLGDWETSDGIALSADKYTSSDPLWYVTVTL	
Ao AMG.PRO	VPTTVSVTFFAVKATTVYGESIKIVGSISQLGSWNPSSATALNADSYTTDNPLWTGTINLP	
Tal-AMG.PRO	TPTSVAVTFDEIVSTSYGETIYLAGSIPELGNWSTASAIPLRADAYTNSNPLWYVTVNLP	
	** * *** * *** * *** * * * * ** *** * **	
	601	646
An amg-1.PRO	AGESFEYKFIRIESDDSVESDPNREYTPQACGTSTATVTDTR	
Ao AMG.PRO	AGQSFEYKFIRVQ.NGAVTWESDPNRKYTVPSTCGVKSQSDVWR	
Tal-AMG.PRO	PGTSFEYKFFKNQTDGTIVWEDDPNRSYTVPAYCGQTTAILDDSWQ	
	* * * * * ** * * * * ** * * *	

FIG 6B

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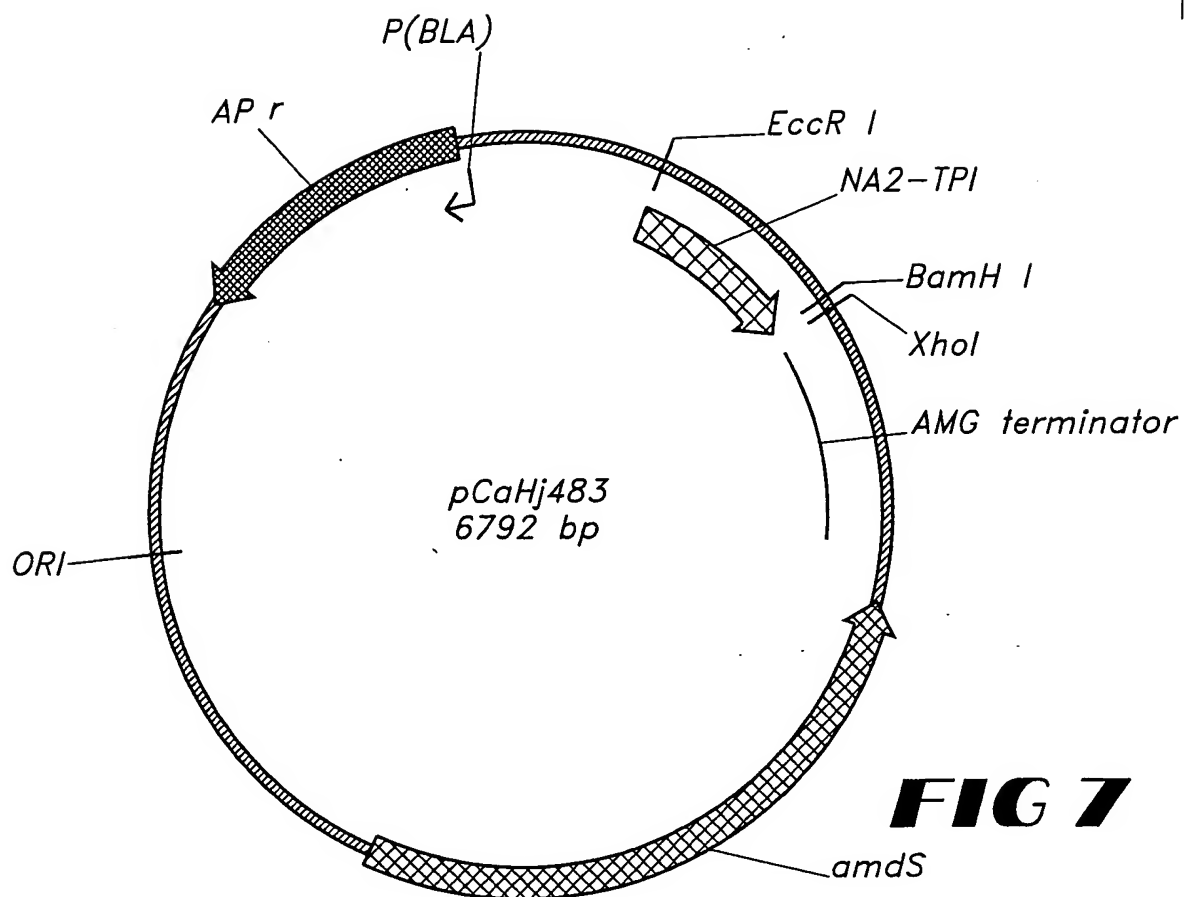


FIG 7

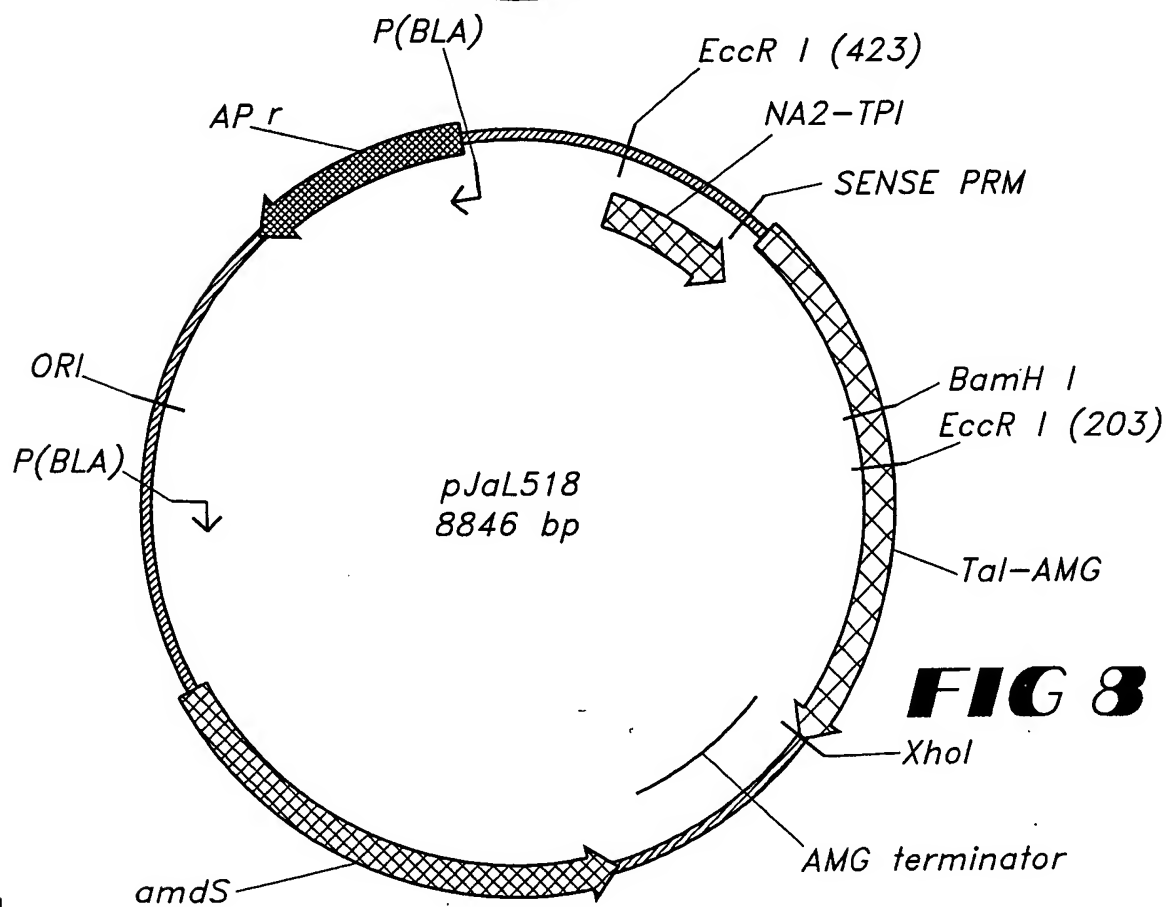


FIG 8

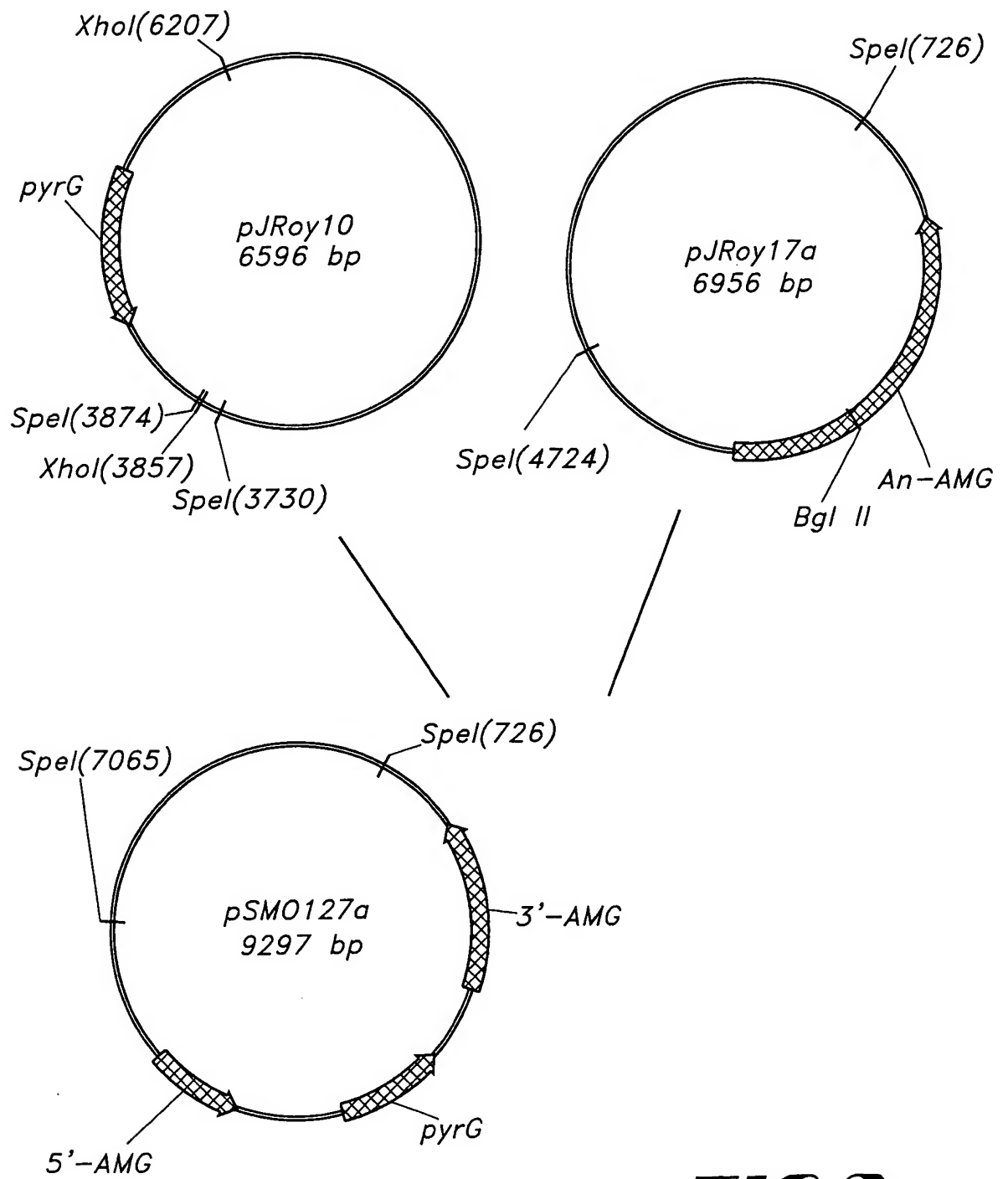


FIG 9

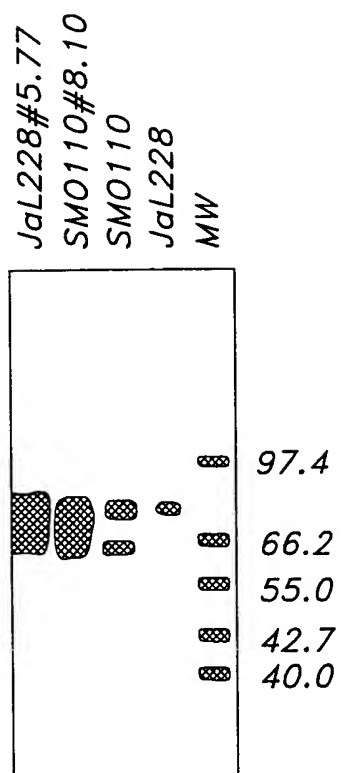


FIG 10

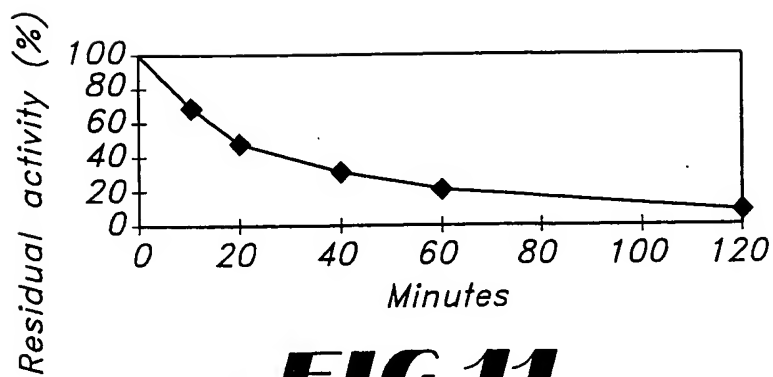


FIG 11

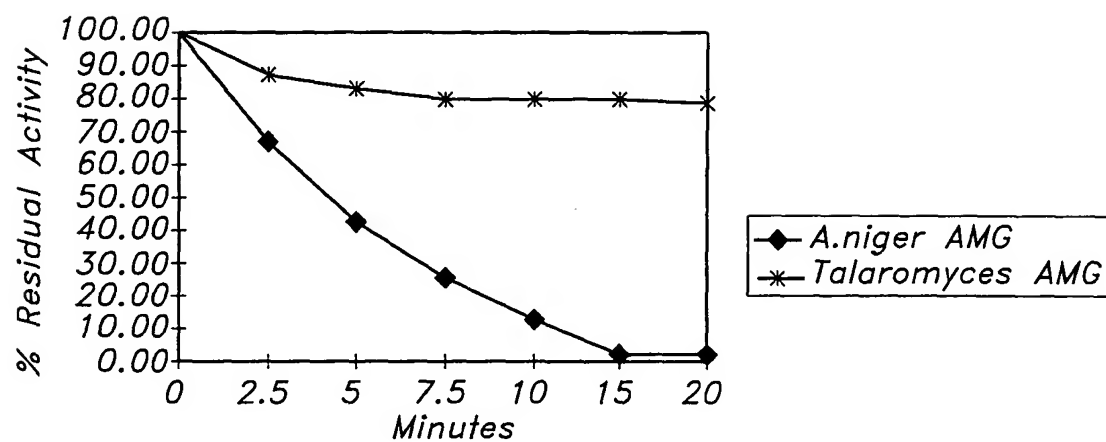


FIG 12

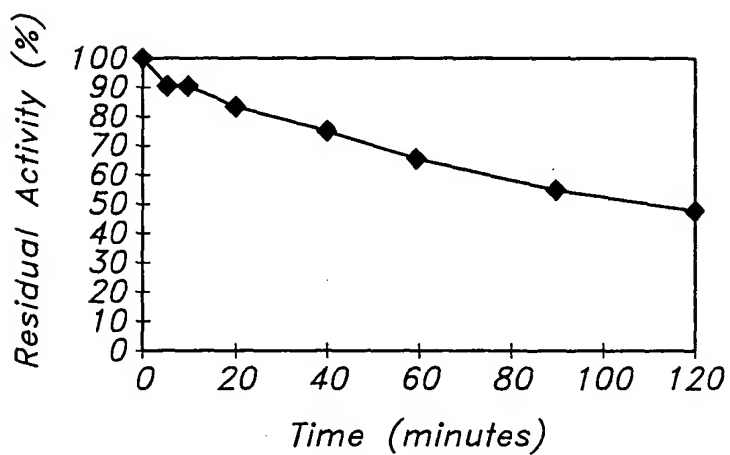


FIG 13